

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/004124

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K31/445 A61P25/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| Y | WO 95/08549 A (GLAXO GROUP LTD ; ARMOUR DUNCAN ROBERT (GB); EVANS BRIAN (GB); GIBLIN) 30 March 1995 (1995-03-30) cited in the application page 1, lines 3-5 | 1-18 |
| Y | WO 03/015784 A (JACK TORQUIL IAIN MACLEAN ; GLAXO GROUP LTD (GB); TRANQUILLINI MARIA E) 27 February 2003 (2003-02-27) page 1, lines 3-5 | 1-18 |
| P,Y | US 2003/144270 A1 (WROBLESKI MICHELLE LACI ET AL) 31 July 2003 (2003-07-31) page 8, paragraphs 173,174 | 1-18 |
| Y | US 2002/123491 A1 (CHEN XIAO ET AL) 5 September 2002 (2002-09-05) page 3, paragraphs 36,37 | 1-18 |
| | -/-- | |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

20 July 2004

Date of mailing of the international search report

17/08/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Heller, D

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/004124

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| Y | US 2003/064980 A1 (CHEN XIAO ET AL) 3 April 2003 (2003-04-03) page 3, paragraphs 38,39 | 1-18 |
| Y | WO 02/10141 A (AHLIJANIAN MICHAEL KIRK ; SANNER MARK ALLEN (US); VILLALOBOS ANABELLA) 7 February 2002 (2002-02-07) page 42, lines 14,26 | 1-18 |
| Y | WO 01/44200 A (CHEN XIAO ; PALIWAL SUNIL (US); XIAO DONG (US); BLYTHIN DAVID J (US);) 21 June 2001 (2001-06-21) page 5, lines 8-21 | 1-18 |

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2004/004124

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 16
because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/004124

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|---|---------------------|----------------------------|-----------------------------|
| WO 9508549 | A | 30-03-1995 | AP 495 A 28-05-1996 |
| | | | AT 173255 T 15-11-1998 |
| | | | AU 681190 B2 21-08-1997 |
| | | | AU 7697494 A 10-04-1995 |
| | | | BG 62169 B1 30-04-1999 |
| | | | BG 100487 A 31-12-1996 |
| | | | CA 2172529 A1 30-03-1995 |
| | | | CN 1135218 A , B 06-11-1996 |
| | | | CZ 9600830 A3 11-09-1996 |
| | | | DE 69414590 D1 17-12-1998 |
| | | | DE 69414590 T2 15-04-1999 |
| | | | DK 720609 T3 26-07-1999 |
| | | | WO 9508549 A1 30-03-1995 |
| | | | EP 0720609 A1 10-07-1996 |
| | | | ES 2123829 T3 16-01-1999 |
| | | | FI 961270 A 03-05-1996 |
| | | | GR 3029354 T3 28-05-1999 |
| | | | HK 1004219 A1 17-03-2000 |
| | | | HR 940575 A1 28-02-1997 |
| | | | HU 75648 A2 28-05-1997 |
| | | | IL 111002 A 24-09-1998 |
| | | | JP 11106341 A 20-04-1999 |
| | | | JP 2865872 B2 08-03-1999 |
| | | | JP 9505275 T 27-05-1997 |
| | | | NO 961156 A 21-05-1996 |
| | | | NZ 273614 A 22-09-1997 |
| | | | OA 10576 A 03-06-2002 |
| | | | PL 313619 A1 08-07-1996 |
| | | | RU 2136675 C1 10-09-1999 |
| | | | SG 52644 A1 28-09-1998 |
| | | | SI 720609 T1 28-02-1999 |
| | | | SK 38396 A3 05-02-1997 |
| | | | US 5703240 A 30-12-1997 |
| | | | US 5843966 A 01-12-1998 |
| | | | ZA 9407291 A 31-05-1995 |
| WO 03015784 | A | 27-02-2003 | WO 03015784 A1 27-02-2003 |
| | | | EP 1423117 A1 02-06-2004 |
| US 2003144270 | A1 | 31-07-2003 | WO 03042173 A1 22-05-2003 |
| US 2002123491 | A1 | 05-09-2002 | US 2003064980 A1 03-04-2003 |
| | | | AU 2097601 A 25-06-2001 |
| | | | CA 2393672 A1 21-06-2001 |
| | | | CN 1434805 T 06-08-2003 |
| | | | EP 1237874 A2 11-09-2002 |
| | | | HU 0301607 A2 29-12-2003 |
| | | | JP 2003522739 T 29-07-2003 |
| | | | WO 0144200 A2 21-06-2001 |
| US 2003064980 | A1 | 03-04-2003 | US 2002123491 A1 05-09-2002 |
| | | | AU 2097601 A 25-06-2001 |
| | | | CA 2393672 A1 21-06-2001 |
| | | | CN 1434805 T 06-08-2003 |
| | | | EP 1237874 A2 11-09-2002 |
| | | | HU 0301607 A2 29-12-2003 |
| | | | JP 2003522739 T 29-07-2003 |
| | | | WO 0144200 A2 21-06-2001 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/004124

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|---|---------------------|----------------------------|---------------------|
| WO 0210141 | A | 07-02-2002 | AU 7094401 A | 13-02-2002 |
| | | | BG 107469 A | 30-09-2003 |
| | | | BR 0112862 A | 01-07-2003 |
| | | | CA 2418115 A1 | 07-02-2002 |
| | | | CN 1444567 T | 24-09-2003 |
| | | | CZ 20030225 A3 | 18-02-2004 |
| | | | EP 1305295 A1 | 02-05-2003 |
| | | | HR 20030048 A1 | 30-04-2003 |
| | | | HU 0303069 A2 | 01-03-2004 |
| | | | WO 0210141 A1 | 07-02-2002 |
| | | | JP 2004505111 T | 19-02-2004 |
| | | | NO 20030472 A | 27-03-2003 |
| | | | SK 1042003 A3 | 04-05-2004 |
| | | | US 2003083352 A1 | 01-05-2003 |
| | | | US 2002119963 A1 | 29-08-2002 |
| WO 0144200 | A | 21-06-2001 | AU 2097601 A | 25-06-2001 |
| | | | CA 2393672 A1 | 21-06-2001 |
| | | | CN 1434805 T | 06-08-2003 |
| | | | EP 1237874 A2 | 11-09-2002 |
| | | | HU 0301607 A2 | 29-12-2003 |
| | | | JP 2003522739 T | 29-07-2003 |
| | | | WO 0144200 A2 | 21-06-2001 |
| | | | US 2003064980 A1 | 03-04-2003 |
| | | | US 2002123491 A1 | 05-09-2002 |